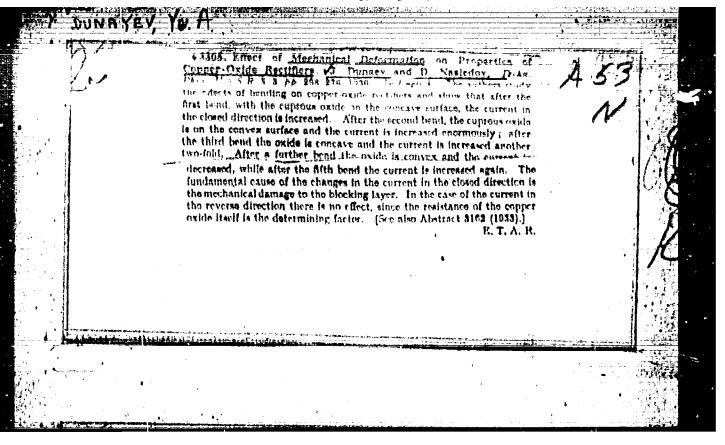
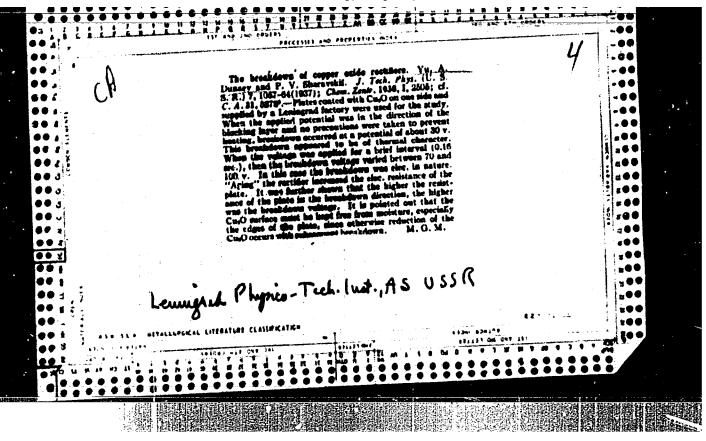
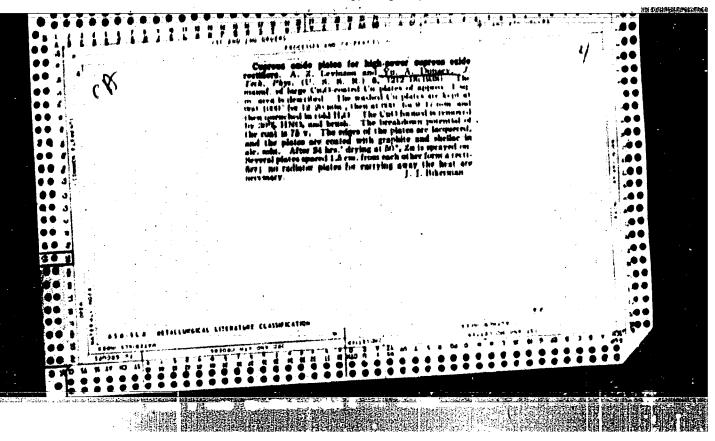
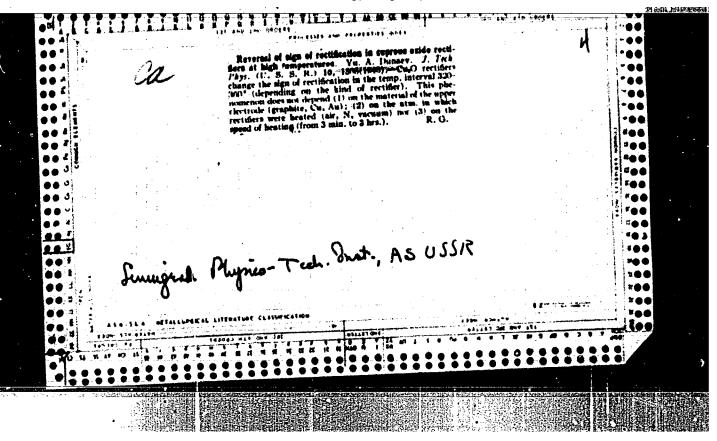
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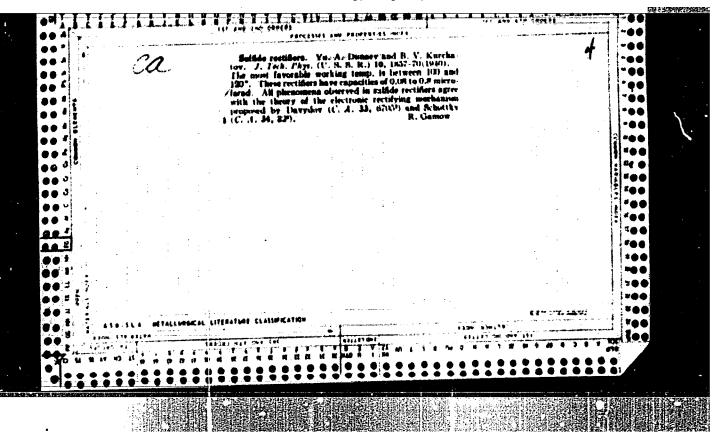
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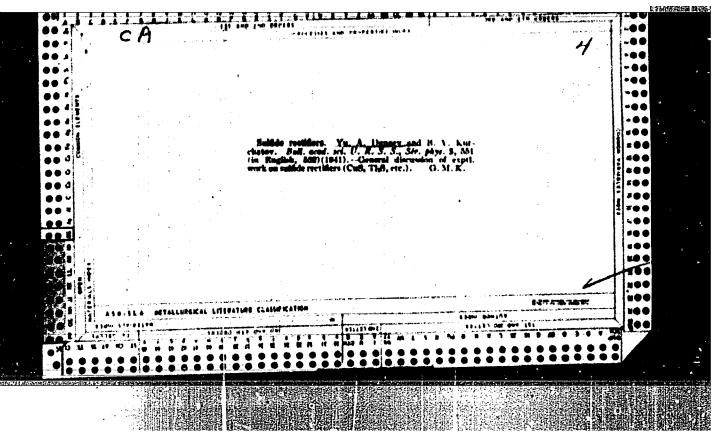












USSR/Paraica

Dec 1946

Conductivity, Thermal Land Sulfide

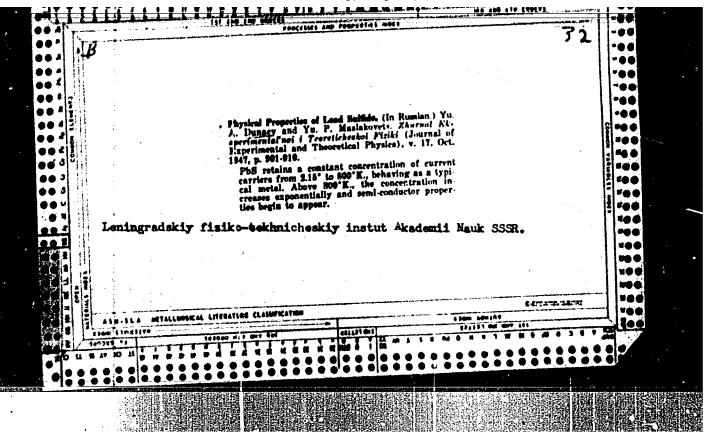
"Measurements of the Thermal Conductivity of Lead Sulphile," Yu. A. Dunayev, 4 pp

"Zhur 'fekh Fiz" Vol XVI, No 10, pp 1101-4.

The author presents mathematical formulae for three methods of measuring the thermal conductivity of lead sulphide. All lead rumples had a good, large crystalline structure. Yu. P. Maslakovets aided in the experiments and the work was submitted at the Leningrad Physico-Technical Institute, Academy of Sciences of the USSR.

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CIA-RDP86-00513R00041153

DUNAYEV, Yu. A.

DERR/Rectricity
Conductivity
Lead Sulfide

"Measurements of the Resistance of PbS at Roughly
Absolute Zero Temperature," Yu. A. Dunayev, 5 pp

"Dok Akad Nauk SSHE, Nova Ser" Vol LV, No 1,
pp 21-23.

Describes experiments which led to conclusion that
PbS is not a semiconductor in classic sense, that
perforated and electronic PbS behave similarly at
low temperatures, and that superconductivity is not
evident in PbS. Submitted by Academician A. F.
Loffe, 7 Aug 1946.

ZERNYAKOV, Boris Stepanovich; THERELEY, Aron Markovich; BURLAKOV, Vladimir Yevgen'yevich; POLIVAKOV, Vasiliy Fedorovich; MANZOH, Eduard Abramovich; MINATEV, Turiy Andreyevich; UDAL'TSOV, A.H., glavnyy red.; MALOV, A.M., kand.tekhn.nauk, red.; TUCHINSKIY, N.V., insh., red.; MAUSIPIN, A.M., insh., red.; SMIRHOV, P.V., insh., red.; HEUSIPIN, A.M., insh., red.

[New method of preparing aluminum alloys in electric furnaces;

Efforts to avoid losses in brass smelting; Use of rolled metal
with variable cross section for the manufacture of truck trailer
axles; New design of rotor blades for low capacity hydraulic
turbines; Lubricant collection in settling basins] Novyi sposob
prigotovlenia aliuminievykh splavov v elektricheskikh pechakh;
Bor'ba s poteriami pri plavke latuni; Primenenie prokata peremennogo
secheniia dlia isgotovleniia osei avtopritsepa; Novaia konstruktsiia
lopastei rabochikh koles gidroturbin maloi moshchnosti; Sbor masla v
otstoinikakh. Noskva, 1956. 12 p. (Peredovoi proizvodstvennotekhnicheskii opyt. Ser.19. Ekonomiia materialov i novye materialy,
primeniaemye v mashinostroenii. No.T-56-363/6). (MIRA 13:3)

1. Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii.

(Technological innovations)

YUZEFOVICE, A.A.; MIRSHAHOV, D.H.; DUBAYEV, Yu.A.

Flat colored gas layer for visualising the aerodynamic spectra of a flow past axially symmetrical bodies. Dokl.AM SSSR 108 no.1: 73-74 My '56. (MLBA 9:8)

1. Leningradskiy fisiko-tekhnicheskiy institut Akademii nauk SSSR. Predstavleno akademikom L.A. Artsimovichem.
(Ballistics) (Aerodynamics) (Gas flow)

807/179-59-2-33/40

AUTHORS: Dunayev, Yu. A., Mishin, G. I. (Leningrad)

TITLE: A Ballistic Tube for Determination of the Drag Coefficient in a Free Flight (Ballisticheskaya truba dlya izmereniya koeffitsiyentov soprotivleniya tel v svobodnom polete)

PERIODICAL: Izvestiya Akademii nauk SSSR OTN, Mekhanika i mashinostroyeniye, 1959, Nr 2, pp 188-190 (USSR)

ABSTRACT: The author describes a ballistic tube for the investigation of flying bodies. It provides the possibility of determination of the drag coefficient with simultaneous photographing of the spectra of the gas flow around the body. The apparatus is illustrated in Figs 1 and 2: the high initial velocity of a flying body is obtained by shooting it from a rifle 1 (calibre 14.5 mm). The retardation of the sound waves of the firing is obtained in the vacuum container 2 (1 mm pressure) which is controlled by the pump 3 and the manometer 4. The flying body has a spherical shape of 9.46 mm dia. Both ends, i.e. inlet and outlet, of the container are covered with a cellophane sheet 0.04 mm thick. The ballistic tube 5.4 m long and 300 mm dia, is divided into four sections. Three sections have two windows each, size 720 x 100 mm, placed opposite each other and two flanges of 150 mm dia. The latter Card 1/4 are included in the apparatus for fixing pumps, manometers,

SOV/179-59-2-33/40

A Ballistic Tube for Determination of the Drag Coefficient in a Free Plight

vacuum-meters and for the supply of gas. The sector 6 and the vacuum container 7 serve as air excluders from the surface of the flying body. The pressure is measured with the vacuum-meter 9. The gas is contained in the bottle 10 and its pressure and temperature are measured with the manometer 11 and the thermometer 12. Prior to the experiments, the pressure in the tube is brought to 10⁻² mm. The trigger is released by the electric current controlled by the relay 26 and the panel 24. The photographs are taken through the windows 13 with the camera 14 (the exposure of 0.5 x 10⁻⁶ sec was obtained with the camera "ETYEV") The lighting system 15 to 18 is obtained from a series of impulses producing flashes in the arrangement 21-23. The flash circuit is shown in Fig 3, where 2 - signal from the photocell 23, v - trigger, g - generator, c - cascade, e - frequency divider, h - univibrator). The drag coefficient of the

Card 2/4

SOV/179-59-2-33/40

A Ballistic Tube for Determination of the Drag Coefficient in a Free Flight

flying body is determined by the expression

$$C_{x} = \frac{8ma}{\rho u^{2} \pi d^{2}}$$

where m - mass of the sphere, a - delay, o - density of gas, u - velocity of the sphere, d - diameter of the sphere. Time is not considered in this expression due to $u\sim t^{-1}$, and $a\sim t^{-2}$. Knowing the gas pressure p and its temperature T in the tube, the density can be calculated from the formula $\rho=0.3594$ ρ_0 $\frac{P}{T}$, where ρ_0 density of gas at the temperature O^0C and pressure 760 mm. The results of the measurements of C_x in the air at the atmospheric pressure are shown in Fig 4. The flying sphere in this case had the following parameters: M - 2.4 - 6.1,

Card 3/4

SOV/179-59-2-33/40

A Ballistic Tube for Determination of the Drag Coefficient in a Free Flight

R - 5.0 x 10^5 to 1.0×10^6 . Thanks are given to A. A. Sokolov for his help in the experiment. There are 4 figures and 4 English references.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk SSSR (Physical Technical Institute of Academy of Sciences USSR) SUBMITTED: November 5. 1958.

Card 4/4

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27175 8/057/61/031/009/015/019 B104/B102

24,4300

AUTHORS:

Dunayev, Yu. A., Tumakayev, G. K., and Shukhtin, A. M.

TITLE:

Interference method by Rozhdestvenskiy for studying gasdynamic

processes in shock tubes

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 9, 1961, 1119-1126

TEXT: The authors describe an experimental arrangement for studying gasdynamic processes by an interference method suggested by D. S. Rozhdestvenskiy (Raboty po anomalinoy dispersii v parakh metallov (Papers on anomalous dispersion in metal vapors), Izd. AN SSSR, 1951). They give preliminary data on the concentration of normal and excited Hg atoms, the temperature of the gas flow behind a shock wave, and on values of the number f for some Hg lines. Figs. 1 and 2 show the experimental arrangement. The low-pressure chamber was made of copper and had a cross section of 38 by 76 mm; the distance between the diaphragm separating the low-pressure from the high-pressure section of the chamber, and the window was 1250 mm. The shock wave was generated by fracture of the diaphragm caused by the nitrogen or helium pressure of 5-30 atm produced in the high-pressure Card 1/0

27175 8/057/61/031/009/015/019 B104/B102

Interference method by ...

chamber. Differently thick diaphragms were used. The spectral apparatus used consisted of a spectroscope with a plane diffraction grating and a concave mirror with a focal length of 175 cm. The authors studied interference patterns of mercury vapors the shock wave in the spectral range of 2500-5800 % for Mach numbers of 6-11.5. The concentration of excited atoms increased with rising M; this increased the dispersion around the lines of the secondary series. The number of lines, near which hook-shaped dispersion patterns appeared, also increased. Dispersion was observed for $M \sim 6.5$ near nine lines of the secondary series, for $M \sim 8$ near 14 lines of the secondary series, and for $M\sim9.5$ near 18 lines of the secondary series. For M~ 11.5 a hook-shaped pattern was observed only near the lines of the visible triplet. At this value of M the shock wave propagated with 2000 m/sec. Table 1 gives the numbers N_k of atoms excited for M=6.4-11.7 as determined from the dispersion patterns near the visible Hg triplet (4047 Å, 4358 Å, 5461 Å). Table 2 gives temperatures of Hg vapor for three Mach numbers. The data obtained permit some statements on the transition probabilities, or the numbers f:

Card 2/8

27175 s/057/61/031/009/015/019 B104/B102 3

Interference method by ...

June ! June ! June ! June ! June ! June = 100 : 4 : 159 : 87 : 18, fate: : fates : fates : fates : fates : fate: fate = 100 : 16 : 29 : 209 : 14 : 75.

The results prove the suitability of Rozhdestwenskiy's method for determining the transition probabilities of allows. The authors thank S. E. Frish, Corresponding Member AS USSR, for attention and interest, as well as N. V. Sosulin, Laboratory Assistant, for his help. There are 5 figures, 2 tables, and 10 references: 7 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: E. Russel, The Physics of Fluids, 2, no. 2, 207, 1959; E. Brannen et al., Nature, 175, no. 4462, 7, 810, 1955.

ASSOCIATION: Fizicheskiy institut Leningradskogo universitata (Physics Institute of Leningrad University)

Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR Leningrad (Physicotechnical Institute imeni A. F. Ioffe of

the AS USSR, Leningrad)

Card 3/8

DONSKOY, K.V.; DUNAYEV, Yu.A.; PROKOF'YEV, A.I.

Electric conductivity measurements in gas jets. Zhur. tekh. fiz. 32 no.9:1095-1098 S 162. (MIRA 15:9)

1. Fiziko-tekhnicheskiy institut imeni A.F. Ioffe AN SSSR, Leningrad.

(Electric conductivity—Measurement)
(Jets—Fluid dynamics)

Dunayer, Yu.A.; Yavor, I.P.; Busygin, 00 ORG: Physicotechnical Institute in, A.F. Ioffe, ANSSR, Leningrad (Fizikotekhnicheskiy institut ANSSR) TITLE: On the low voltage cesium vapor arc SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 3, 1466, 533-541 TOPIC TAGS: electric arc, cosium, electron temperature, electron density, cesium plasma, direct energy conversion, IR spectrum, electron temperature, spectral The authors have investigated the visible and near infrared spectra of ABSTRACT: low voltage hot cathode cesium vapor ares. The investigation was undertaken because of the technical importance of cesium arcs for the development of energy converters ${\cal D}$ and the presence in the Hiterature of discordant data, particularly concerning electron ismissiatires. The electrodes were of molybdenum, the a x 4 mm working faces were plane and parallel. The cathode was of foil and was beated by direct current. parameters were varied over the following ranges: electrode spacing, 0.5-2 ma; cathode temperature, 1400-18000 K; cosium vapor pressure, 0.5-6 mm Hg; current density,2-20 A/cm^2 . The dispersion of the type DFS-12 spectrometer was 5 A/cm in the second order ○ 00-6000A) and 10 A/mm in the first order (6000-12 0)0 A). The FEU-38 photomultiplia ployed to record the spectra was sensitive from 3000 to approximately 9000 A. The Card 1/3

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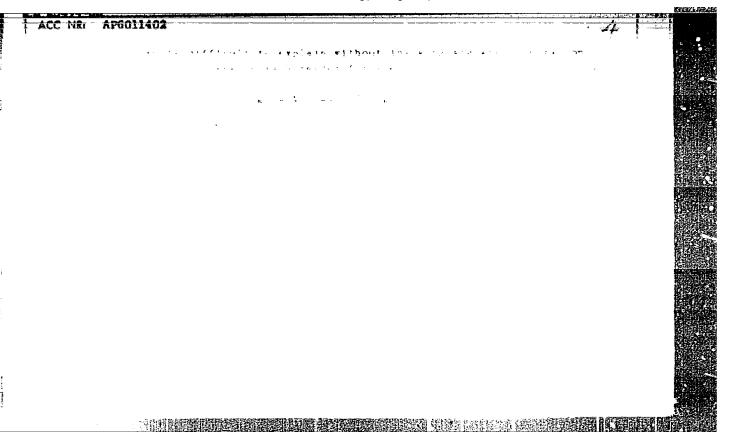
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ACC NR: AP6011402

are was imaged at unit magnification on the spectrometer slit, which was parallel to the plane of the electrodes; conditions in the arc could thus be observed between the electrodes at different distances from them. Many cestua lines were observed in the spectrum. Electron temperatures were determined from line intensities in the chare and diffuse series, the intensities were consistent with Boltzmann distribution of the lavel copulations. The electron temperatures ranged from 1200 to 3000 or 4000" K. Electron concentrations were derived from the Stark breadening of lines of the fundsmental series, electron concentrations of the order of 10 or 10 cm 3 were observed. A number of forbidgen lines were recorded. Electron concentrations derived from the forbidden line intensities as suggested by L.1. Grechikhin and Ye.S. Tymina (7.1, 1, 395, 1963) were considerably lower than those derived from the Stark broadlening. In low current arcs the electron temperature increased almost linearly with distance from the cathode throughout the whole electrons gap. In higher current arcs the which temperature at first increased more rapidly with distance from the cathode irrent area, but this increase did not persist throughout the follogap which temperature was nearly constant throughout \sim 41 % the arm. The we were most intense in a region of the arm summers. See to the cathode The war from density was maximum at was within of the electron density marisum at the common and at the highest con shed. The objected mechanisms reasons Server distri-निवर्षे क्षेत्र कर्षे कर्षे कर अस्त्रीक्ष्म कर्षे कर्षे स्थान विकासन्त्री किस्सानिक क्षेत्र क्षेत्र क्षित्र कर्

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THE STATE OF THE PROPERTY OF T



DUNATEV, Yu.D.; KIR'YAKOV, G.Z.

Potentials of lead-base cermet anodes in sulfuric acid solutions.

Isv. AH Kasakh. SSR. Ser.khim. no.1:12-18 '58. (MIRA 12:2)

(Blectromotive force) (Electrodes) (Sulfuric acid)

. BURATEV, TA.D.; KIR'YAKOV, G.Z. Lead-base powder-metal anodes. Trudy Inst. khim. nauk AM Kasakh. (MIRA 12:3) (Lead) (Blectrodes)

KIR'YAKOV, G.Z.; RAZINA, N.F.; DUNAYEV, Yu.D.

Insoluble anodes based on lead. Trudy Inst.khim.nauk AN Kazakh. SSR 6:9-53 '60. (MIRA 14:4)

DUNAYEV, Yu.D.; KIR'YAKOV, G.Z.

Distribution of potential and current in the pores of an anode based on lead during its polarisation in sulfuric acid solutions. Trudy Inst.khim.nauk AN Kasakh.SSR 6:67-85 '60. (IIRA 14'4) (Electrochemistry)

8/850/62/009/000/001/012 B117/B186

AUTHORS:

Dunayev, Yu. D., Kir'yakov, G. Z., Chernysheva, Z. N.

TITLE:

Inhomogeneity of the surface and electrode processes on

porous lead anode

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut khimicheskikh nauk. Trudy. v. 9. Alma-Ata, 1962. Elektrokhimiya rastvorov i metallicheskikh sistem, 18-41

TEXT: The laws governing the distribution of processes whose sequence and rate depends on the change in potential along the pores were studied. As regards the reactions producing oxygen, lead dioxide, and lead sulfate, equations were derived for the distribution of potential and current in the pores according to their diameter, for the conductivity of electrolyte and for the current density. At high polarization, oxygen was shown to form also over a comparatively short pore section. In the potential region, this section, whose length remains practically constant at sufficiently long polarization time, is above +1.760 v. The velocity of the process can be expressed with sufficient accuracy by the Tafel equation. Card 1/3

Inhomogeneity of the surface and ...

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The formation of lead dioxide, during which the potential is slightly shifted from its equilibrium value, takes place in a section at some distance from the pore opening, this section being bounded by the zone of lead sulfate formation and its length increasing with time. The sulfate formation begins in the region of potential change, in which the density of available current is commensurable with the exchange current for Pb ? Pb The process Pb PbSO4 was found to take place in a tube of finite length in the region of positive potentials (far away from y = -0.299 v). region is determined by the exponential distribution theorem for the ourrent density along the tube. Experimental and theoretical data are in good agreement. A pore model (consisting of a tube with exchangeable units) was used for studying the effect of alloying additives on the current distribution and on the increase in anode stability: additives that redistribute the current on microsections under the protective layer and whose ions affect the structure and strength of the PbO2 film as well as the kinetics and mechanism of oxygen formation (e.g. silver) are especially effective in metal-ceramic compounds; additives whose action depends on structural changes of the alloy (e.g. thallium) are most Card 2/3

Inhomogeneity of the surface and ...

S/850/62/009/000/001/012 B117/B186

effective in cast electrodes (solid solutions). The effect of metal ions which increase the stability of Pb sets in at a current density of more than $10^{-4} \, \mathrm{a/cm^2}$, i.e. in the potential region of the formation of highly oxidized compounds. The formation of the PbO₂ film is replaced partly by the formation and continuous regeneration of a phase layer of easily decomposing metal oxides. The overpotential of oxygen is reduced. There are 11 figures and 1 table.

Card 3/3

DUNAYEV, Yu.D.; KIR'YAKOV, G.Z.

Macromodelong of a pore as a method of studying porous electrochemical systems. Trudy Inst. khim. nauk AN Kazakh.SSR 12:137-156 '64. (MIRA 18:2)

DUNAYEVA, A. V.

FEDOROV, Ye.Ye., Professor; PREDTECHENSKIY, P.P.; BUCHINSKIY, I.Ye.;

SEYANINOV, G.T., Professor; BOSHEO, L.V.; ALISOV, B.P.; BIRTUKOV,

N.H.; GAL'TSOV, A.P.; GRIGOR'YEV, A.A., akademik; ETGENSON, M.S.,

Professor; MURETOV, M.S.; KHROMOV, S.P.; BOGDAROV, P.M.; LEHEDEV,

A.H.: SOKOLOV, V.M.; YAHISHEVSKIY, YU.D.; SAMOYLENKO, V.S.; USMA
EOV, R.F.; CHUBUKOV, L.A.; TROTSENKO, S.Ya.; VANGENGEYM, G.Ya.;

SOKOLOV, I.F.; STYRO, B.I.; TEMMIKOVA, M.S.; ISAYEV, E.A.; DMITRIYEV,

A.A.; MALYUGIN, Ye.A.; LIEUEMAA, Ye.K.; SAPOZHNIROVA, S.A.; RAKIPO
VA, L.R.; POKROVSKAYA, T.V.; RAGDASARYAN, A.B.; CRLOVA, V.V.; RU
BINSHTEYN, Ye.S., Professor; MILEVSKIY, V.YU.; SHCHER BAKOVA, Ye.Ya.;

BOCHKOV, A.P.; AMAPOL'SKAYA, L.Ye.; BUNAYEVA, A.V.; UTESHEV, A.S.;

HUDNEVA, A.V.; KUDENKO, A.I.; ZOLOTAREV, M.A.; MERSESYAN, A.G.;

MIKHAYLOV, A.M.; GAVRILOV, V.A.; TSOMAYA, T.I.; DEVYATKOVA, A.M.;

ZAVARINA, M.V.; SHMETER, S.M.; BUDYKO, M.I., professor.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. sbor.GUGMS nc.3/4:26-154 *54. (MIRA 8:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Fedorov). 2. Glavnaya geofizicheskaya observatoriya im. A.I. Voeykova (for Predtechenskiy, Lebedev, Yanishevskiy, Isayev, Rakipova, Pokrovskaya, Orlova, Rubinshteyn, Budyko, Shcherbakova, Anapol'skaya, Dunayema, Rudneva, Gavrilov, Zavarina). 3. Ukrainskiy nauchno-isaledovatel'skiy gidrometeorologicheskiy institut (for Buchinskiy).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of delates) [of the current state climatological research and methods of developing it]. Inform. sbor. GUOMS no.3/4:26-154 154. (Card 2) (MIRA 8:3)

4. Vsesoyusnyy institut rastenievodstva (for Selyaninov, Rudenko).
5. Bioklimaticheskaya stantsiya Kislovodsk (for Boshno). 6. Moskowskiy gosudarstvennyy universitet im. M.V.Lomonosova (for Alisov).
7. Ministerstvo putey soobshoheniya SSSR (for Biryukov). 8. Institut geografii Akademii nauk SSSR (for Gal'tsov, Grigor'yev). 9. Geofisicheskaya komissiya Vsesoyusnogo geograficheskogo obshchestva (for Eygenson). 10. Ministerstvo elektrostantsiy i elektropromyshlennosti SSSR (for Muretov). 11. Isningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Khromov). 12. TBentral'nyy nauchno-issledovatel'skiy gidrometeorologicheskiy arkhiv (for Sokolov, Zolotarev). 13. Gosudarstvennyy okeanograficheskiy institut (for Samoylenko). 14. TSentral'nyy institut prognosov (for Usmanov, Saposhnikova). 15. Institut geografii Akademii nauk SSSR i TSentral'nyy institut kurortologii (for Chubukov). 16. Nauchno-issledovatel'skiy institut imeni Sechenova, Yalta (for Trotsenko). 17. Arkticheskiy nauchno-insledovatel'skiy institut (for Vangengeym).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state of climatological research and methods of developing it].
Inform.sbor. GUGMS no.3/4:26-154 154. (Card 3) (MIRA 8:3)

18. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Scholov). 19. Institut geologii i geografii Akademii nauk Litovskoy SSR (for Styro). 20. Rostovskoe upravlenie gidrometelushby (for Temnikova). 21. Morskoy gidrofisicheskiy Institut Akademii nauk SSSR (for Dmitriyev). 22. Vsesoyurnyy institut rasteniyevodstva (for Malyugin). 23. Akademiya nauk Estonskoy SSR (for Liedemaa). 24. Akademiya nauk Armyanskoy SSR (for Bagdasaryan). 25. Leningradskiy gidrometeorologicheskiy institut (for Milevskiy). (Continued on next card)

FEDOROV, Ye.Ye., professor: PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform.sbor. GUDMS no.3/4:26-154 154. (Card 4) (NIRA 8:3)

26. Gosudarstvennyy gidrologicheskiy institut (for Bochkov). 27. Kasakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut
(for Uteshev). 28. Upravlenie gidrometslushby Armyanskoy SSR (for Hersesyan). 29. Ieningradskoye upravleniye gidrometslushby (for Mikhaylov,
Devyatkova). 30. Tbilisskiy gosudarstvennyy universitet (for Tsomaya).
31. TSentral'naya aerologicheskaya observatoriya (for Shmeter).
(Climatology)

DunayEVA, A.V.

PHASE I BOOK EXPLOITATION

SOV/4192 SOV/2-8-90

Leningrad. Glavnaya geofizicheskaya observatoriya

Voprosy sinopticheskoy klimatologii (Problems in Synoptic Climatology) Leningrad, Gidrometeoizdat, 1960. 154 p. (Series: Its: Trudy, vyp. 90) Errata slip incerted. 1,100 copies printed.

Additional Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed. (Title page): O. A. Drozdov, Doctor of Geography; Ed. (Inside book): V. S. Protopopov; Tech. Ed.: M. I. Braynina.

PURPOSE: The publication is intended for meteorologists and climatologists.

COVERAGE: This is a collection of 11 articles published as No. 90 of the Transactions of the Main Geophysical Observatory imeni A. I. Voyeykov Card 1/4

Problems in Synoptic Climatology

SOV/4192

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11

43

and dealing with problems of synoptic climatology. Individual articles are concerned with the succession of synoptic processes as the basic for forecasting, atmospheric circulation over China, frequency of typhoons over China, and various processes of the eastern and western forms of atmospheric circulation. References accompany each article.

TABLE OF CONTENTS:

Afanas yeva, V.B. Testing a Forecasting Method Based on the Succession of Synoptic Processes

Chzhan Tszya-chen. Long-Term Mean Characteristics of Some Meteorological Elements and of Circulation over China in Winter

Chzhan Tszi-tszya. Long-Term Mean Characteristics of Atmospheric Circulation and Weather Conditions over China in Summer

Card 2/4

	-		
Problems in Synoptic Climatology SOV/4192			1 3
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Vitel's, L. A. Solar Calendar of Ultrapolar Processes	116	·	
Shapayev, V. M. Trade-Wind Circulation Over the Atlantic	130	:	

Problems in Synoptic Climatology

807/4192

Spitsyna, N. L. Application of Some General Laws of Cyclone Movement to Those Cyclones Which Cause the Danger of Flood on the Neva River

149

AVAILABLE: Library of Congress

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DUMAYEVA, A.V.

Relation between diurnal anomalies of the air temperature and various forms of processes associated with the eastern type of atmospheric circulation. Trudy GGO no.90:79-86 160.

(MIRA 13:6)

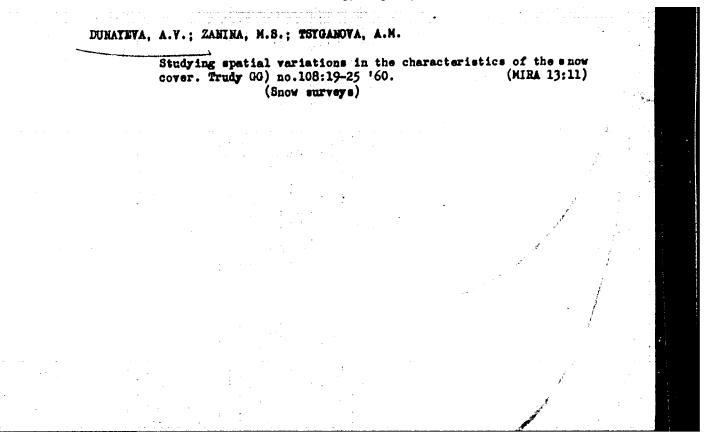
(Atmospheric temperature)

DUBAYEVA, A.V.

Relation between diurnal anomalies of the air temperature and various forms of processes associated with the vestern type of atmospheric circulation. Trudy GGO no.90:87-94 *60.

(MIRA 13:6)

(Atmospheric temperature)



DUNAYEVA, A.V.; ZANINA, M.S.

Technique of calculating the predictability of the appearance of the snow cover. Trudy GGO no.113:51-56 '60. (MIRA 14:3) (Snow)

DUNAYEVA, A.V.

Appropriate methods for processing data on snow surveys. Trudy GGO no.130:51-64 62. (MIRA 15:7)
(Snow surveys)

DUNAYEVA, A.V.

电式电影 1900年 (日本山東西東京西南部市東京市中央公司)

Distribution of the snow cover on the territory controlled by the Northwestern / 'ministration of the Hydro-meteorological Service. Trudy G O no. 112:107-115 163. (MIRA 17:5)

DUNAYEVA, A.V.

Accuracy of measuring the height of the snow cover. Trudy GGO no.163:87-92 *64 (MIRA 18:1)

Sampling as the basis for the proper organization of stationary snow surveys. Ibid. \$122-15°

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DUNAYEVA, A.V.

Distribution of the snow cover on homogeneous underlying surfaces.
Trudy GGO no.175:200-207 '65. (MIRA 18:8)

1. Glavnaya geofizicheskaya observatoriya im. A.T. Voyeykova, Leningrad.

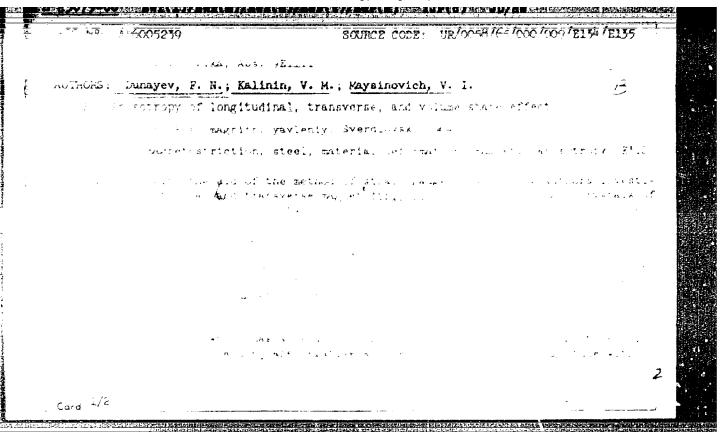
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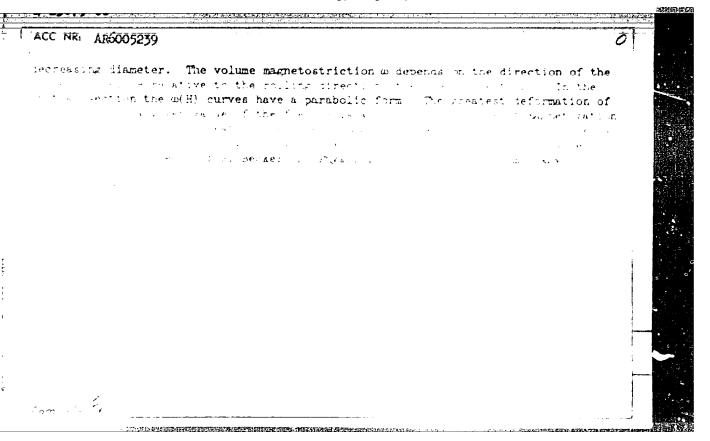
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DUNAYEVA, E.M.; SIVUKHA, T.A.

Rheo-encephalographic, electroencephalographic, and clinical study on patients with cervical osteochondrosis with disorders of higher visual function. Zhur. nevr. i psikh. 65 no.9:1281-1285 '65. (MIRA 18:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut ekspertizy trudosposobnosti, Moskva.





History of the formation of the Uvek and Knyasevka sliding hilleides in the Volga Valley. Trudy Lab. gidrogeol.probl. 14:113-123 '57. (Volga Valley--Landslides) (MIRA 11:5)

ROGOZIN, Igor' Stepanovich; DUNAYEVA, Galina Vladimirovna; POPOV, I.V., prof., doktor geol.-Hin. nauk, otv. red.; FILIPPOVA, B.S., red. izd-va; ASTAF'YEVA, G.A., tekhm. red.

[Landslides of the Saratov region of the Volga Valley]
Opolsni Saratovskogo Povolsh'ia. Hoskva, Izd-vo Akad. nauk
SSSR, 1962. 161 p. (MIRA 15:7)
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OSIPYAN, V.T.; KAZHDAN, V.B.; DUWAYEVA, I.D.

Butadione, an effective agent for the control of body lice. Zhur. mikrobiol. epid. i immun. 31 no.7:18-22 J1 '60. (MIRA 13:9)

1. Is Voyenno-meditsinskoy ordena Lenina akademii im.Kirova.
(PYRAZOLIDINEDIONE) (LICE)

OSIPYAN, V. T.; GRABOVSKIY, B. S.; KAZHDAN, V. B.; DUNAYKVA, I. D.

Method of laboratory selection of repellent preparations and evaluation of their activity in relation to fleas. Hed. paras. i paras, bol. no.6:734-737 '61. (MIRA 15:6)

1. Is Voyenno-meditsinskoy ordena Lenina akademii imeni S. M. Kirova.

(INSECT BAITS AND REPELLENTS) (FLRAS)

OSIPYAN, V.T.; STEPANOV, M.K.; CRABOVSKIY, B.S.; SMIRNOV, K.K.; KAZHDAN, V.B.; MASLIY, L.K.; DUNAYEVA, I.D.

Comparative effectiveness of hexamethylenebensamide and acetyltetrahydrequinoline as protective agents against fleas in humans. Med. paraz. 1 paraz. bol. 32 no.5:551-553 S-0:63 (MIRA 16:12).

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

DUNAYEVA, I.D.

Residuel action in chlorophos in the substrate on the preimaginal phase of house flies. Med. paraz. i paraz. bol. 33 no.1: 13-15 Ja F '64 (MIRA 18:1)

1. Voyenno-meditsinskaya ordena Lenina akademiya imeni S.M. Kirova .

DURATERA, L.A.

Muligran's degeneration of bonigh Sumore of the bones and fibrous sets says trophy following Xaray therapy. Med. red. 10 no.5:50-35 By 165. (MIRA 18:6)

1. Respublikanskly onkologicheskly dispanser Unbokskoy SSR (glavnyy vrách Z.R. Rakhimov), Tashkent.

PENYUGALOVA, Z.P.; PUSHKAREVA, Z.V.; DUNAYEVA L.V.; DARIYENKO, Ye.P.

Gertain reactions of 2,3-diaminophenazine. Zhur.org.khim. 1 no.2:358-362 F 165. (MIRA 18:4)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.

DUNAYEVA, K.M., IPPOLITOVA, Ye.A.

Formation of uranium exysulfide of the composition 2052. UO2. Vest. Hosk. un. Ser. 2: Khim. 16 no.1:54-56 Ja-F '61. (MIRA 14:4)

1. Kafedra neorganicheskoy khimii) Moskovskogo universiteta. (Uranium oxysulfide)

, T

8/189/61/000/006/005/005 D228/D304

AUTHORS: Dunayeva, K.M., Ippolitova, Ye.A. and Khrustaleva,

TITLE: Investigating the thermal stability of uranyl sulfate

PERIODICAL: Moscow. Universitet. Vestnik. Seriya II, khimiya, no. 6, 1961, 35-37

TEXT: In studying the thermal decomposition of uranyl sulfate the authors were primarily interested in ascertaining the temperature of dissociation of the anhydrous salt. The trihydrate was prepared by dissolving U₃O₈ in a solution of H₂SO₄ at 80 and evaporating the filtrate, when crystals containing 56.95% U and 8.04% S were obtained. On heating the UO₂SO₄ • 3H₂O the following changes were observed: the loss of 1 1/2 molecules Card 1/2

S/189/61/000/006/005/005 Investigating the thermal ... D228/D304

of water at 20-115°, after which the hydrate is stable to 150°; complete dehydration at 300°, after which the anhydrate is stable to 720°; and the decomposition of the sulfate into U₃0₈ and SO₂ above 720°. Examination of the heating curve of uranyl sulfate, recorded by a Kurnakov pyrometer, shows that the endothermic effects at 125° and 300° respectively correspond to the loss of 1 1/2 molecules of water and the salt's full dehydration. There are 2 figures, 1 table and 2 non-Soviet-bolc references.

ASSOCIATION: Kafedra neorganicheskoy khimii (Department of

Inorganic Chemistry)

SUBMITTED: May 20, 1960

Qard 2/2

DURAYEVA, L.

Clinical aspects and roentgenotherapy of osseous form of xanthomatosis (Hand-Schmeller-Christian diseases) Vest. rent. i rad. no.6:81-83 H-D 154. (MIRA 8:1)

1. Is Usbekskogo respublikanskogo onkologicheskogo dispansera (glavnyy vrach Z.R.Rakhimov, sav. rentgenologicheskim otdeleniyem L.A.Dunayeva)

(LIPOIDOSIS,

Hand-Schueller-Christian synd., clinical aspects & x-ray ther.)

(RADIOTHERAPY, in various diseases,

Hand-Schueller-Christian synd.)

DUNHYEVA, X.A.

USEN/ General Problems of Pathology. Tumors.

Abs Jour: Referat. 2h.-Biol., No 2, 1958, 7769

Novikov, N. *., Dunayeva, L.A., Rakhimov, L.A. Author:

Insti

The Garcinoma of the Larynx Title:

Orig. Pub: Za Sots. Zdravookhr. Uzbekistana, 1955, No. 6, 43-47

Abstract: The nost dangerous are carcinomas of the epiglottis, false chords and of the laryngeal ventricle. The true vocal chords

are poor in Lymphatics; therefore, metastases appear later and develop sore slowly. The false vocal chords are rich in Lymphatics and metastatic spread therefrom occurs early. Prognosis aspends upon the location of the tumor; it is different for cancer of the true vocal chords, the portion below

the vocal chords, and the vestibule of the larynx. Of 100

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DUNATRYA, L.A., assistort

Clinical aspects of neuroblastom and the X-ray diagnosis of metastases into the bones, Med., shur, Usb. no.12:38-46 D 58.

(MIRA 13:7)

1. Iz kafedry rentgenologii i meditsinskoy radiologii (sav. prof. D.M. Abdurasulov) Tashkentskogo gosudarstvennogo instituta
usovershenstvovaniya vrachey i Hespublikanskogo onkologicheskogo
dispansera (glavnyy vrach - Z.R. Rakhimov).
(MERYOUS SISTEM--CAMORE) (BOHES--DISHASES)

DUNAYEVA, L.A.

X-ray treatment of bone sarcomas. Med.rad. no.10:23-27 *61.

(MIRA 14:10)

1. Is kafedry rentgenologii i meditsinskoy radiologii Tashkent—skogo instituta usovershenstvovaniya vrachey i Respublikanskogo onkologicheskogo dispansera.

(BONES—GANGER) (X RAIS—THERAPSUTIC USE)

DUNAYEVA, H.

Efficiency promoters of a young plant. Metallurg 8 no.7:35-36 Jl '63. (MIRA 16:8)

1. Machal'nik Byuro po delam ratsionalizatsii i isobretatel'stva Cherepovetskogo metallurgicheskogo savoda. (Iron and steel plants—Equipment and supplies)

DUNAYEVA, N.T.; MILEVSKIY, B.F.

People of a creative mind. Motallurg 10 no.8:3-4 Ag 165.

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- 1. Nachal'nik Byuro po ratsionalizatsii i izobretatel'stvu (Cherepovetskogo metallurgicheskogo zavoda (for Dunayeva).
- 2. Predsedatel' Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Milevskiy).

DUNAYEVA, N.M. [Dunaieva, N.M.]

Gypsum and anhydrite. [Pratsi] Inst. geol. nauk AN URSR. Ser. geol. rod. kor. kcp. no.1:59-66 '63.

Sandatone. Ibid.:66-71

(MIRA 18:6)

DUNAYEVA, N. N.

DUMAYEVA, N. N. -- "Upper Coal Pearlweeds of the Donets Basic and their Stratigraphic Significance." (Dissertations for Degrees in Science and Entirearing Defended at USSR Higher Educational Institutions) Min of Higher Education, Ukraine SSR, Kiev Order of Lenin Polytechnic Inst. Kiev, 1955

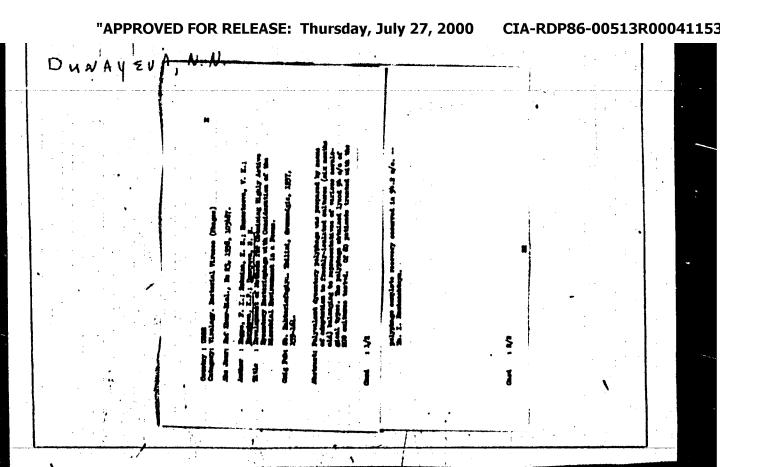
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* For Degree of Candidate in Geological and Mineralogical Sciences

DUNAYBVA, N.N.

On the existence of the genus Rhomboporella Bassler. Dokl. AN SSSR 110 no.4:668-669 0 156. (HIRA 10:1)

1. Predstavleno akademikom S.I. Mironovym. (Trepostomata)



EYMOR, Ol'gerd Leonerdovich; DUMAYEVA, M.M., red.; OKOPHAYA, Ye.D., tekhn.red.

[Fundamentals of the geology of the U.S.S.R.] Canovy geologii SSSR. Kiev. Ind-vo Kievekogo univ. Pt.1. 1960. 335 p. (MIRA 14:4)

(Geology)

DUNAYEVA, N. N.

New polysoans of the gemme Rhombotrypella from the upper Carboniferous of the Donats Basin. Paleont.shur. no.2: 44-51 *60. (MIRA 13:7)

1. Institut geologicheskikh nauk AM USSR. (Donets Basin-Polysao, Fossil)

DUNAYEVA, Hataliya Nikolayevna [Dunaieva, M.M.]; AYZENHERG, D.Ye.,

doktor geol.-mineral.nank, otv.red.; CHEKHOVICH, N.Ya., red.;
LIHERMAN, T.R., tekhn.red.

[Upper Carboniferous moss animals of the western Donets Basin]
Verkhm'okam'ianovuhil'ni mokhovatky sakhidnoi chastyny Donbasu.
Kyiv, Vyd-vo Akad.nauk Ukrains'koi RSR, 1961. 120 p. (Akademiia nauk URSR, Kiev. Instytut geologichmykh nauk. Trudy, no.38).

(MIRA 14:12)

(Donets Basin-Polyzoa, Possil)

ZHUKOV, M.M.; SLAVIN, V.I.; DUNAYEVA, N.N.; KHAIN, V.Ye., red.; SHANTSER, Ye.V., red.; KOLOSHINA, T.V., red. izd-va; HYKOVA, V.V., tekhn. red.

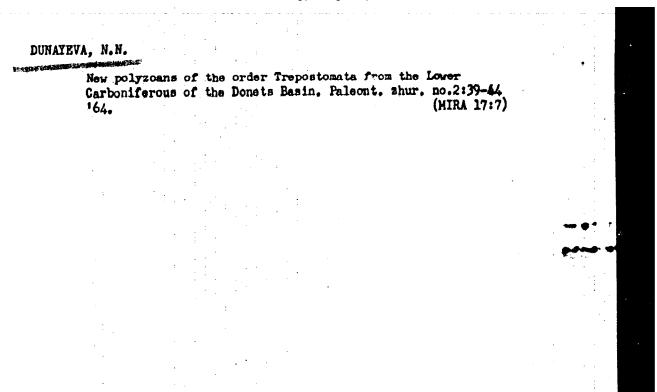
[Principles of geology] Osnovy geologii. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po geol. i okhrane nedr. 1961. 625 p. (MIRA 15:2)

(Geology)

DUNAYEVA, N.N.

New Bryozoa species Mipponostenophia from the Lower Carboniferous in Voronesh Province. Paleont. zhur. no.4:124-126 '63. (MIRA 17:1)

1. Institut geologicheskikh nauk AN UkrSSR.



DUNAYEVA, N.N.

DUHAYEVA, P.F., spetared.; VASIL'YEVA, G.M., red.; YAROV, H.M., tekhn.red.

[Meat industry] Missneis promyshlennest'.Moskvs, Pishchepromisdat.
No. 23. 1957. 18 p. (MIRA 11:12)

1. Hussia(1923- U.S.S.R.) Ministerstvo promyshlennosti. Otdel tekhnicheskoy informatsii. (Meat industry)

PERHYAKOV, V.G., DUNAYEVA, S.A.		
Diffusive redistribution of aluminum during the graphitizing annualing of cast iron. Lit. proizv. no.2:36-37 F '65. (MIRA 18		
	-	

GUTERMAN, I.O.; DUNAYNYA, S.I.; MAMATNYA, L.Y.

Applicability of the method of differences in aeroclimatological study of the wind. Trudy TSNIGNA no.2:46-69 *55. (MIRA 9:7) (Winds)

DUNAYEVA, S.I.

Mean wind field over the Northern Hemisphere in January and July. Trudy NIIAK no.14:35-48 '61. (MIRA 15:1)

1. Nauchno-issledovatel skiy institut aeroklimatologii.
(Winds)

GUTERMAN, I.G.; DUNAYEVA, S.I.

Some remarks on the construction of aeroclimatic wind charts.

Trudy NIIAK no.16:45-49 '62. (MIRA 15:11)

(Winds)

ACCESSION NR: AT4028301 \$/2667/63/000/024/0066/0091

AUTHOR: Guterman, I. G.; Dunayeva, S. I.; Zvereva, Ye. P.; Harchenko, A. S.

TITLE: Climatic characteristics of the wind in a model of the standard etmosphere

SOURCE: Moscow. Nauchno-issledovateliskiy institut aeroklimatologii. Trudy*, no. 24, 1963, 66-91

TOPIC TAGS: standard atmosphere, meteorology, climatology, wind, wind velocity, wind direction, troposphere, stratosphere

ABSTRACT: A method has been developed for processing aerological observations for a 10-year period (1950-1959) to the 30-mb isobaric surface for the determination of wind characteristics, averaged over large regions and the hemisphere. The determined characteristics are recommended as the first variant of a model of a standard atmosphere for the northern hemisphere. Wind parameters were determined for January, for July and for the year to a height of 25 km. The principal parameters used for this model were the mean scalar velocity of the wind for the month and the year and the resultant wind vector (value and direction). Both characteristics were determined using data for 200 stations, a total of 470,000 observations, processed by electronic computer. Principles and methods employed in this study are described fully. The many difficulties in handling this complex problem Cord

ACCESSION NR: AT4028301

are discussed. Wind parameters are summarized and analyzed for six geographic regions within which the character of wind distribution can be considered homogeneous in the first approximation. Nonuniformity of station distribution and decreasing number of observations at greater heights are taken into account. In this process data were averaged for 206 equal-area squares in the northern hemisphere. The six regions for which data are generalized are: polar regions; Europe and part of Asia; North America and the North Atlantic; North Africa and Central Asia; North Pacific Ocean and the Far East; and the equatorial and tropical regions. The following section headings indicate the nature of the development of the paper: Introduction; characteristics of the data used; principal geographic regions defined for the purpose of description of wind over the northern hemisphere; the wind vector as a random value; determination of the climatic characteristics of the wind; general principles for determining mean parameters for regions and the hemisphere; averaging data for stations; averaging data for regions and the hemisphere; determination of wind characteristics for standard heights; practical computation of derivatives of wind parameters at standard heights. Orig. art. has: 29 formulas, Il figures and 3 tables.

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ASSOCIATION: Nauchno-issledovatel'skly institut eeroklimetologii, Moscow (Scientific Research Institute of Aeroclimetology)

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78105 **SO**V/70-5-1-14/30

AUTHORS:

Boyarskaya, Yu. S., Keloglu, Yu. P., Bologa, M. K.,

Dunayeva, S. M.

TITLE:

Study of the Elicots of Some Factors on the Hardness

of KCl and NaCl Single Crystals

PERIODICAL:

Kristallografiya, 1960, Vol 5, Nr 1, pp 98-104 (USSR)

ABSTRACT:

Numerous experiments by various authors are cited. Some of them produced contradictory results and made further studies necessary. The (100) faces of two sets of KCl crystals were etched for different periods with water and tested for the indentation and scratching hardnesses. Both values at first increased with duration of etching for 2-3 min but dropped again to usual values on still further etching. Polishing of (100) faces in saturated KCl solution on a cloth also increased the hardness with time duration for the first 2 min and reduced again on still further duration.

However, no hardness increase was evident when specimens were polished with iron oxide instead of KCl

Card 1/3

Study of the Effects of Some Factors on the Hardness of KCl and NaCl Single Crystals

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solution. Thus, impregnation of the surface layer with water is believed to be the principal reason for the hardness increase. The reason for its drop with further treatment may be related to the healing of dislocations because of the intermediary action of the impregnating water. The healing as such increases and stabilizes the surface hardness but at the same time eliminates the internal stresses around former dislocations and, consequently, the additional hardness caused by these stresses. To check this concept the authors tested NaCl crystals which a priori had different degrees of structure distortions and obviously required different periods for the healing of their defects. The structure distortions, produced by a repeated alternation of coloring and bleaching procedures, proved to alter the surface hardness of crystals to such a small extent that the hardness changes during the experiments remained within the limits of possible errors. However, longer periods of etching to achieve the maximum surface hardness of more

Card 2/3

Study of the Effects of Some Factors on the Hardness of KCl and NaCl Single Crystals

78105 SOV/70-5-1-14/30

intensively distorted crystals were obvious. M. V. Klassen-Neklyudova and V. L. Indenbom are acknowledged for advice. There are 6 figures; 4 tables; and 10 references, 8 Soviet, 1 German, and 1 Russian trans-

lation of a U.K. paper (by A. H. Cottrell).

ASSOCIATION:

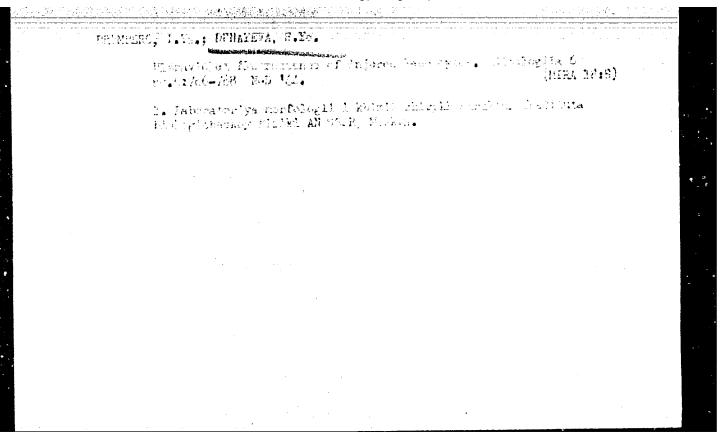
Kishinev State University (Kishinevskiy gosudarstvennyy

universitet)

SUBMITTED:

July 16, 1959

Card 3/3



DUNAGEVA, T. N.

"Ecology of the Small Rodents of the Tundra and Their Significance in Regulating the Number of Polar Foxes," Sub. 20 May 47, Moscow Fur and Pelt Inst.

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum. No.457, 18 Apr 55

EUNAYEVA, T. N.

42210. KUCHERUK, V. V., EUNAYEVA, T. N. - Materialy po dinamike chislennosti polevki Brandta,
K voprosu o vozdeystivii epizootii na populytsiyu. Materialy K poznaniyu fauny
i flory SSSR, izd. Mosk. ovom ispytateley prirody, Novaya seriya. Otd. zool.,
VYP. 3, 1948, c 111-78 -Bibliogri 57 nazv.

S0: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

UNAYEVA, T. N.	542882 5	g i	69H3	N 8			
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DUNAYEVA, T.N and OLSUF'YEV, N.G.

"The Susceptibility to Tularemia and the Possible Epidemical Significance of the Weasel, Polecat, and Fox," Zool. Zhur. 30, No. 1, pp. 78-83. /95/

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